

**ABSTRACT OF THE DISCLOSURE**

The disclosed embodiments may relate to vehicle (10) having a control system (12) located within the vehicle (10). The control system (12) may include a processor (26) and a wake-up circuit (46) coupled to the processor (26). The processor (26)  
5 may utilize a program (34) during a standby mode of operation. The program (34) is configured to provide a voltage to the wake-up circuit (46) for a first time period ( $T_1$ ) once an interrupt is received by the processor (26). Then, the program (34) may monitor the wake-up circuit (46) for a second time period ( $T_2$ ). If a response of the wake-up circuit (46) exceeds at least one of a plurality of predetermined limits, then the  
10 program (34) may recalibrate the wake-up circuit (46).